



United States
Environmental Protection
Agency

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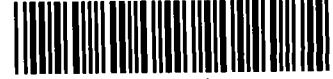
Illinois Indiana
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Granville Solvents, Inc.

October 1999

Granville, Ohio

US EPA RECORDS CENTER REGION 5



502195

This Fact Sheet Will Tell You About:

- The history of the Granville Solvents Site
- Cleanup alternatives under consideration by U.S. EPA for selection at Granville Solvents site

Public Comment Period

USEPA is holding a 30-day public comment period to accept comments on its proposed cleanup plan for Granville Solvents site. The public comment period begins **November 15, 1999** and ends **December 14, 1999**. All comments should be sent to Leo Rosales, USEPA (address on last page).

Public Meeting

USEPA will hold a public information meeting to explain the EE/CA along with the cleanup alternatives for the Granville Solvents site and answer questions. The meeting will be held on;

November 30, 1999
Granville Village Hall
141 E. Broadway
Granville, Ohio
7 p.m.

Introduction

The United States Environmental Protection Agency (USEPA) has completed its review of the Engineering Evaluation and Cost Analysis (EE/CA) for the Granville Solvents Site in Granville, Ohio. The EE/CA summarizes the cleanup alternatives that have been considered by USEPA for the site, including the cost and length of cleanup.

Site History

The Granville Solvents site is located at 300 Palmer Lane, Granville, Licking County, Ohio. Located in a residential area, the site is surrounded by commercial and light industrial businesses and is 1/3 mile south west of downtown Granville. The site is bordered to the north and west by Palmer Lane, to the east by the Cherry Street overpass and by a bicycle and walking path on the south and west. The village of Granville's municipal well field is located approximately 1,000 feet to the west.

Prior to 1980, Granville Solvents, Inc. operated a solvents repackaging business at the location. In 1980, GSI began a solvents recycling operations business until it ceased operations in 1986. At the time the facility was closed, containers, drums and storage tanks containing an estimated 55,000 gallons of various solvents and waste materials remained on the property. Consequently, the Ohio Environmental Protection Agency (OhioEPA) conducted various removal cleanup activities, including disposal of all stored waste material, containers, excavation and removal of all storage tanks and their contents, soil testing and installation of groundwater monitoring wells.

Site Investigations

In May 1993 the Ohio EPA referred the Granville solvents site to the United States Environmental Protection Agency (USEPA) for further study and to address the human health and environmental threat at the site.

Sampling results from several monitoring wells throughout the site revealed above normal levels of several volatile organic compounds (VOCs) in groundwater. Soil and subsurface soils were also taken and showed high levels of VOCs, with the northeast corner of the site showing the highest levels. Other contaminants such as Lead and Chromium were also detected at the site.

In 1994, the USEPA identified approximately 125 Potentially Responsible Parties (PRPs) in connection with the hazardous material at the site. A group of approximately 100 PRP's, voluntarily began making plans to address the contamination at the site.

In 1994, USEPA along with the Granville Solvents Site Group signed a document called an Administrative Order on Consent, that allowed for an investigation and cleanup of the site to begin. This effort included the preparation of an Engineering

Evaluation and Cost Analysis (EE/CA). The EE/CA includes studies of on-site and off-site surface soil, subsurface soil, and groundwater contamination as well as recommended alternatives for cleaning the contamination. The results of these investigations were evaluated by USEPA.

Between 1994 and 1998, several actions were taken to monitor groundwater and well water in the City of Granville. Those actions included an installation of a groundwater pump and treat system which consist of two on-site extraction wells and a water treatment system; an installation of the new village of Granville production well; and a groundwater monitoring program and soil investigation.

Site Risk Evaluation

The sampling results at the Granville Solvents site showed that VOCs and SemiVOCs were detected in soil and groundwater at the site.

The contaminants are present in and around the immediate vicinity of the warehouse building at the site. The smallest area of impact by the contamination has been found near the surface, while the larger area of impact was near the water table.

VOCs contamination has been detected in the groundwater, approximately 300 feet outside the site at low concentrations. The highest concentration of VOCs is beneath the site and is being contained by the existing pump and treat system which treats contaminated groundwater.

Cleanup Objectives

The primary objectives of a cleanup or removal action is to address the potential human health and environmental exposures associated with the elevated levels of VOCs.

Removal action objectives for the Granville Solvents site include the following.

- To monitor any water originating from the site that enters the Village of Granville municipal well field drinking water supply, so that it meets all federal and state drinking water standards.
- Design, install and operate a pump and treat system which will halt the migration of groundwater contamination to the Village of Granville municipal wellfield
- Treat the soils at the site to levels which will assure protection of human health and the environment.

Removal Action Alternatives

Five removal action alternatives were evaluated as part of the EE/CA to address impact soil and groundwater. The alternatives include:

- **Alternative 1 - No Action** - Used for comparative purposes. The cost of this alternative is \$2,400,267.

- **Alternative 2 - Soil Removal by Excavation and Disposal**

Consist of the excavation and off-site disposal of contaminated soil from the site and beneath the warehouse building on-site. Groundwater pump and treat system would be modified by the addition of a new extraction well. The cost of this alternative is \$5,128,370

- **Alternative 3 - In Situ Mixing/Hot Gas Vaporization of Soil Areas**

Removal of soil contaminants by soil mixing and hot gas vaporization. Groundwater pump and treat system would be modified by the addition of a new extraction well. The cost of this alternative is \$2,741,243

- **Alternative 4 - Treatment of Soils by Pneumatic Fracturing and Soil Vapor Extraction**

Removal of contaminants by the use of Soil Vapor Extraction (SVE) enhanced by pneumatic fracturing of contaminated soil. The soils overlying the site are expected to be remedied by induced airflow from the SVE system. Groundwater pump and treat system would be modified by the addition of a new extraction well. The cost of this alternative is \$2,450,961

- **Alternative 5 - Thermally Enhanced Soil Vapor Extraction**

Removal of contaminants by using a new technology which heats the soil with electrodes, draws a vacuum on the electrodes to recover and destroy the contaminants while the formation desiccates, causing increased air permeability. Groundwater pump and treat system would be modified by the addition of a new extraction well. The cost of this alternative is \$2,733,033

Recommendations

USEPA recommends Alternative 4.

USEPA will not select a final cleanup action plan for the Granville Solvents site, until all public comments have been received, either by mail or at the public meeting.

Comments must be postmarked and mailed to Leo Rosales by **December 14 , 1999.**

More Information

A local site Information Repository containing general Superfund site-specific documents and the USEPA Administrative Order for the Granville Solvents site is available for review at the Granville Public Library, 217 East Broadway, Granville, Ohio.

For further information, please contact the following USEPA representatives.

Leo Rosales (P-19J)
Community Involvement Coordinator
312 353-6198

Sirtaj Ahmed (SR-6J)
Project Manager
312 886-4445

U.S. Environmental Protection Agency
Region 5
77 West Jackson Blvd
Chicago, IL 60604
Toll-free Number : 800 621-8431



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Office of Public Affairs
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Chicago, IL 60604

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Chris Kosko
530 West Maple Street
Granville, OH 43023

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